



2009-10 Influenza Epidemiology and Surveillance Weekly Status Report for Kansas

Week Ending January 9, 2010

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Executive Summary

***D. Charles Hunt, MPH, State Epidemiologist and Director
Bureau of Surveillance and Epidemiology
Kansas Department of Health and Environment***

Overview

I am pleased to announce the addition of a new section to our weekly influenza epidemiology and surveillance report: the number and proportion of Kansans vaccinated against the 2009 H1N1 influenza A virus. Initial public health efforts focused on administering this vaccine to those in target groups first, including pregnant women, persons who live with or provide care for infants less than 6 months of age, healthcare and emergency medical services personnel, persons 6 months through 24 years of age, and persons 25-64 years of age who have medical conditions that put them at higher risk for influenza-related complications. Although demand for this vaccine appears to have been met for the target groups, we estimate that substantial proportions of those populations have not been immunized.

For example, based on provider-reported vaccine administration data to date, we estimate that approximately 230,000 persons under 25 years of age have been vaccinated, which represents just 23% of the population in that age group (unpublished data). We are also currently analyzing Behavioral Risk Factor Surveillance System (BRFSS) data to assess 2009 H1N1 influenza A virus vaccination coverage among various subgroups within the population, including those at highest risk for infection and serious complications, and plan to include that information in future reports. Despite the substantial gaps in vaccine coverage among persons in high-risk groups, the vaccine is now available to all Kansans. Since the vaccine first became available to Kansans in October 2009, more than 473,000 doses have been administered to approximately 17% of the population.

Outpatient Visits for Influenza-like Illness (ILINet)

The number of ILINet sites reporting increased from 43 (61%) to 48 (69%) of the 70 ILINet Sites in Kansas for the week ending January 9th. The statewide percentage of patients seeking care for ILI at ILINet clinics increased from 1.3% to 1.7%. Four regions reported an increase and included the northeast, northwest, south central and southwest regions. It is important to remember that regional percentages may fluctuate after non-reporting sites submit data.

Hospital Admissions for Pneumonia or Influenza (EMSystems)

For the week ending January 9th, 83 (63%) of 132 hospitals reported 256 patients admitted for pneumonia or influenza. The statewide rate of hospital admissions per 100 bed-days increased for the second week in a row, from 0.53 to 0.55. The northwest and south central regions each reported a 28% increase in the rate of hospital admissions per 100 bed-days— the largest increase in the state this week.

Hospital Situational Awareness (EMSystems)

On Wednesday, January 6th, 112 (84%) of the 134 hospitals reported situational awareness information through EMSystems. Hospitals reporting an increased demand for patient services increased from two hospitals to five. The regions with the highest percentage of hospitals reporting increased demand for patient care services include north central (7.7%), northeast (9.1%), and south central (7.7%) regions.

Executive Summary (continued)

Mortality Due to Pneumonia or Influenza

Forty-one (6.8%) of the 604 deaths reported to KDHE during the week ending January 9th were due to pneumonia or influenza. Nationally, deaths attributed to pneumonia and influenza comprised 7.4% of all reported deaths during the week ending January 2nd, below the epidemic threshold of 7.5%.

Self-reported Influenza-like Illness

New data for interviews conducted from December 16 – 31, 2009 are included in this week's report. The percentage of adults interviewed between December 16 – 31 and reported ILI in the previous two weeks decreased from 4% to 1%. The percentage of adults reporting ILI in the previous 4 weeks also decreased, from 9% to 6.8% but remained the same in children at approximately 25%. The percentage of households with at least one person experiencing ILI in the previous 4 weeks increased from 22.3% to 24.9% for those interviewed between December 16– 31, 2009.

School Absenteeism

The majority of schools across Kansas resumed classes for the week ending January 8th. However, severe winter weather forced many schools to cancel classes. However, 91 out of 105 (87%) counties reported school absenteeism data.

The statewide percentage for elementary schools and high schools reporting 10% or greater absenteeism increased to 5.1% and 7.4% respectively. The statewide percentage for middle schools decreased from 6% to 5%.

Laboratory-based Surveillance

The percentage of specimens that tested positive for influenza A (2009 H1N1) increased for the third consecutive week, albeit only slightly. The percentage rose from 16% during the week ending January 2nd to 16.7% during the week ending January 9th. During the week ending January 9th, 42 specimens were tested at KDHE Laboratories (KHEL). Of these, six were positive for influenza A (2009 H1N1).

Since October 4th, a total of 2,126 specimens have been submitted to KHEL for testing. Of these, 883 (42%) have tested positive for influenza A (2009 H1N1).

Population Vaccinated Against 2009 H1N1 Influenza A Virus

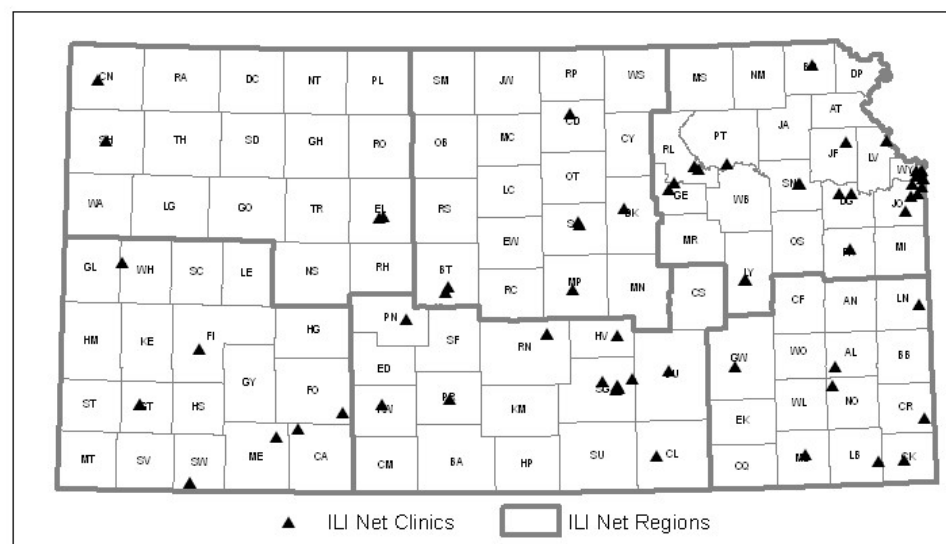
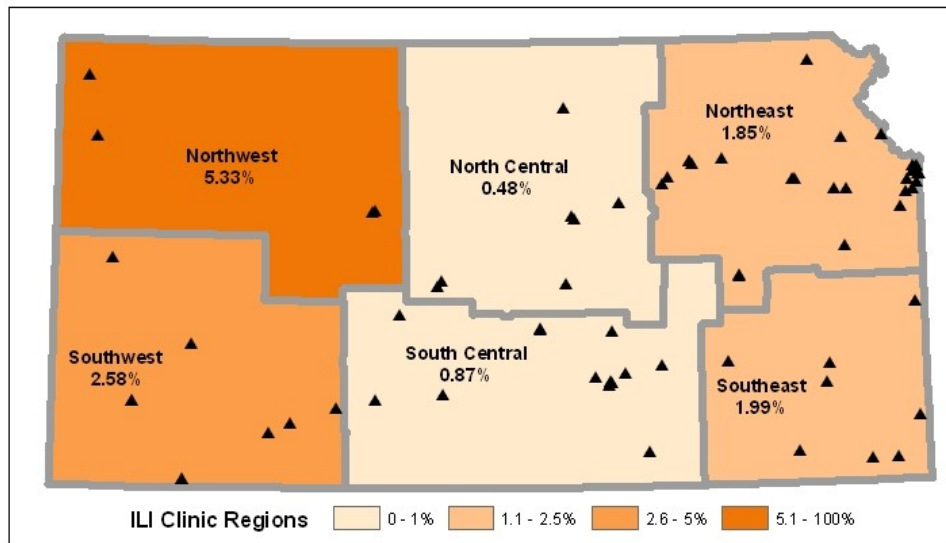
As of January 9th, 473,364 doses of 2009 H1N1 vaccine were reported to have been administered to Kansans, which comprises approximately 17% of the state's population. The charts show the cumulative number of individuals vaccinated at the end of each week by region as well as the cumulative percentage of each region's population that has been immunized. It is important to note that numbers of people vaccinated are reported by the county in which they receive the vaccination; therefore cumulative numbers and rates may be skewed slightly, as individuals are divided into regions based on the site of vaccination. These charts do not account for individuals who were vaccinated in a region other than the region in which they reside.

The proportion of the population vaccinated ranged from 13% in the south central and southeast regions to 19% in the southwest region of the state. Vaccine administration data may change each week because of data submitted after the reporting deadline or because of corrections made to previously submitted data.

Outpatient Influenza-like Illness (Surveillance Conducted via ILINet) Week ending January 9, 2010



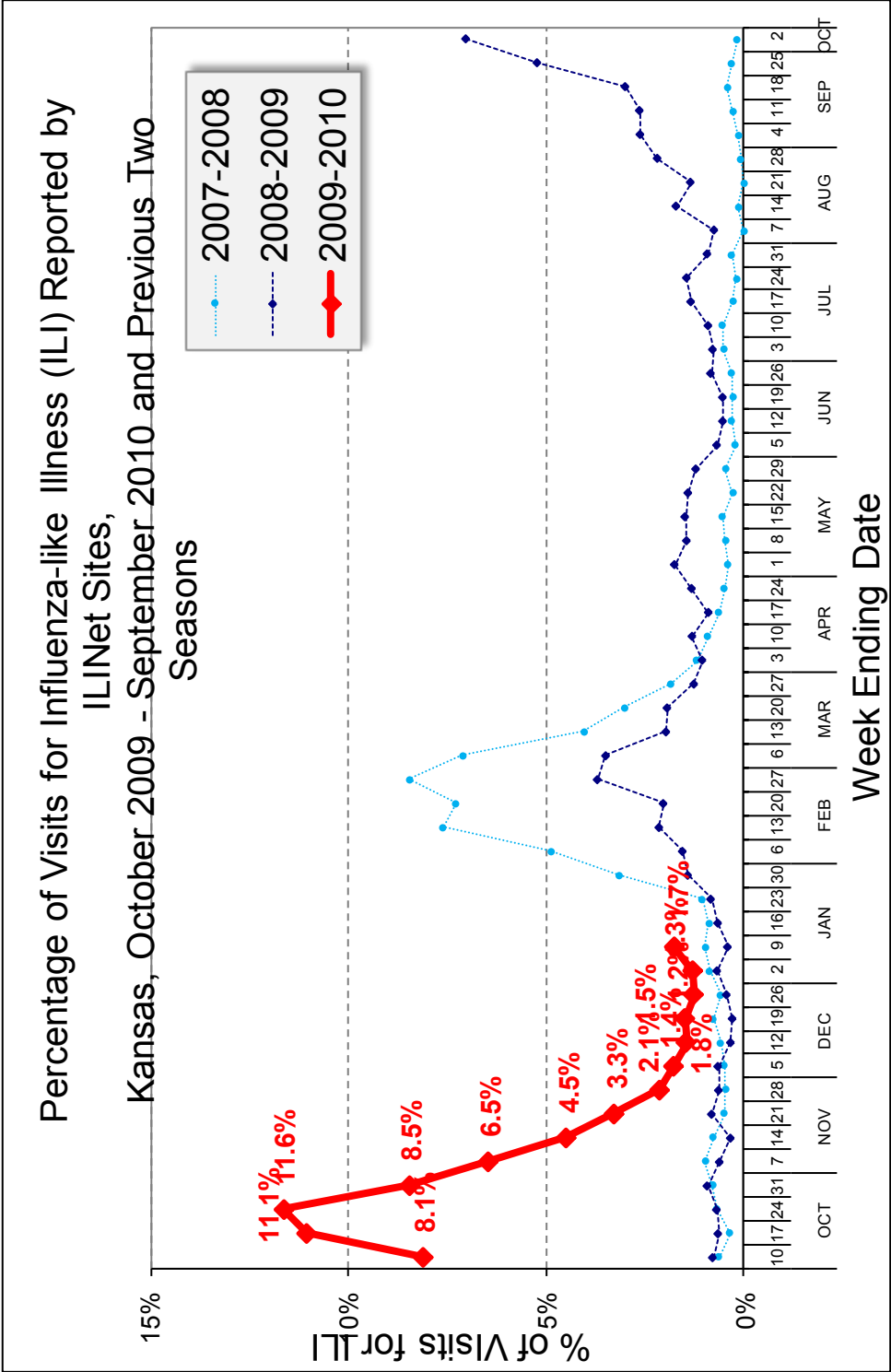
Percentage of Visits
for Influenza-like Illness (ILI)
Reported by ILINet Sites, by Region
January 2 - January 9, 2010



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Data Sources: KS Department of Health and Environment

**Outpatient Influenza-like Illness
(Surveillance Conducted via ILINet)
Week ending January 9, 2010**



The X-axis represents the week ending dates for the 2009-2010 surveillance year. Data from the previous two surveillance years are plotted according to week number corresponding to the 2009-2010 week ending date. Week 40 of 2009 ended October 10, 2009. Week 40 of 2008 ended October 4, 2008, and week 40 of 2007 ended October 6, 2007, and so on. Week 53 was unique to the 2008-2009 season; data for that week has been excluded from the chart. ILINet sites vary in location, number, and type (student health, family practice, etc.) each season as new sites are enrolled and former sites are deactivated.

Outpatient Influenza-like Illness (Surveillance Conducted via ILINet) Week ending January 9, 2010



Percentage of Visits
for Influenza-like Illness (ILI)
Reported by ILINet Sites, by Region and Week
as Reported on January 9, 2010

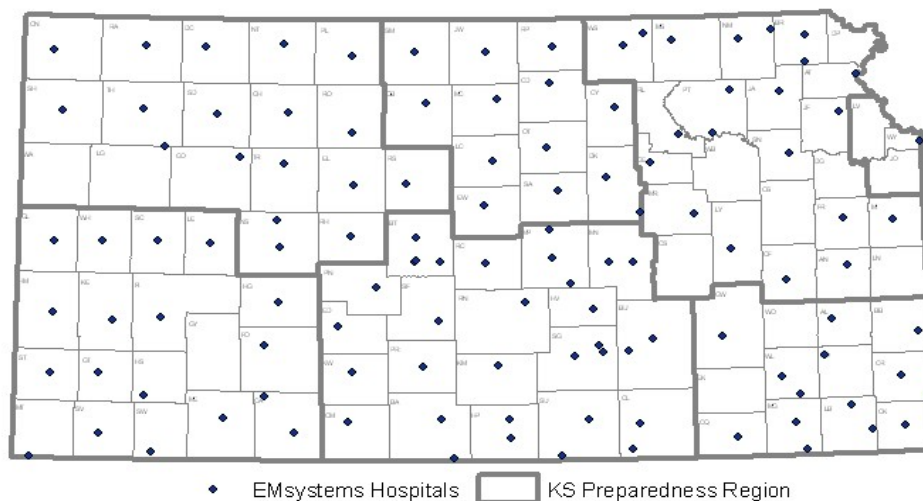
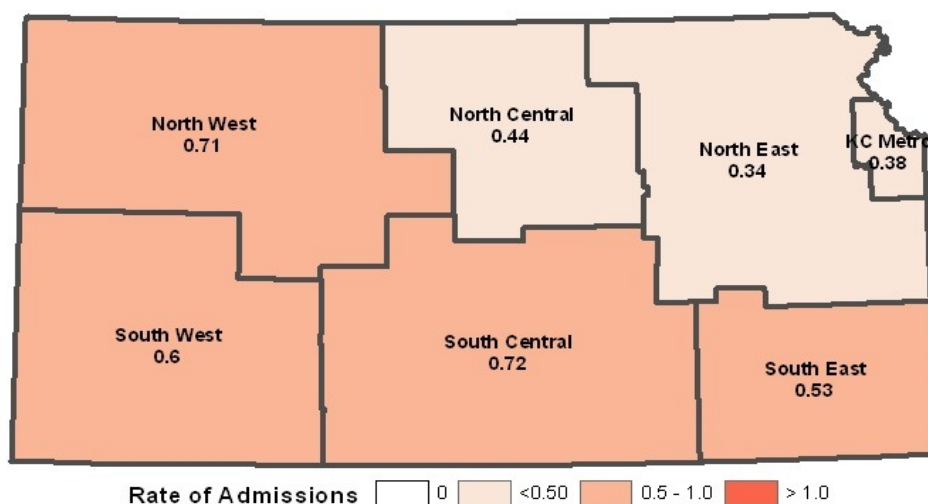


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Hospital Admissions (Surveillance Conducted via EMSys) Systems) Week ending January 9, 2010



Rate of Hospitalizations
due to Pneumonia or Influenza
per 100 Bed-Days*
by Preparedness Region,
January 2 - January 9, 2010

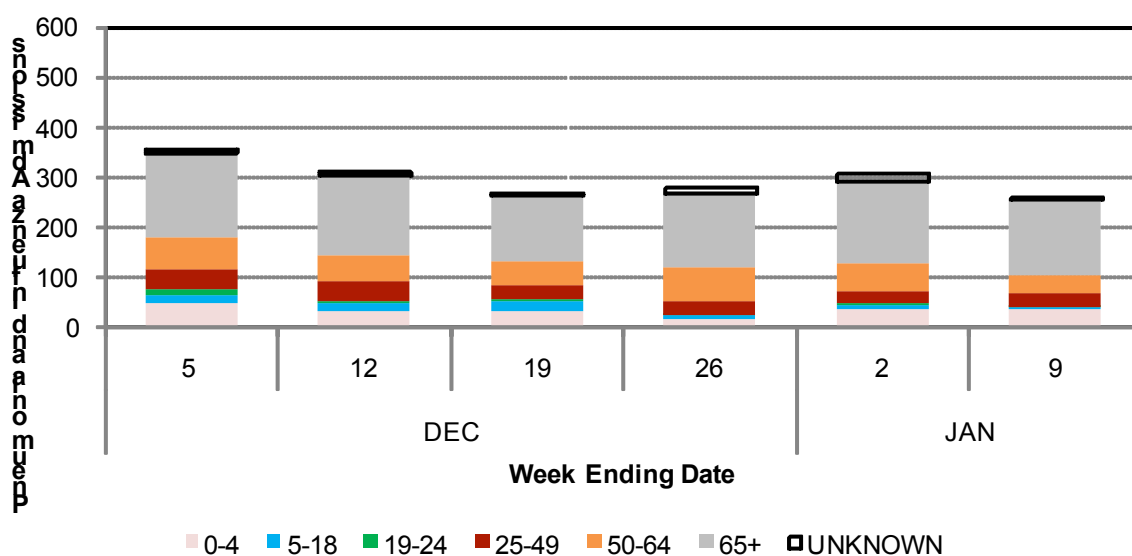


*Rate is per staffed bed days. Please see the Technical Notes Section for explanation on data calculation.

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Hospital Admissions (Surveillance Conducted via EMSystems) Week ending January 9, 2010

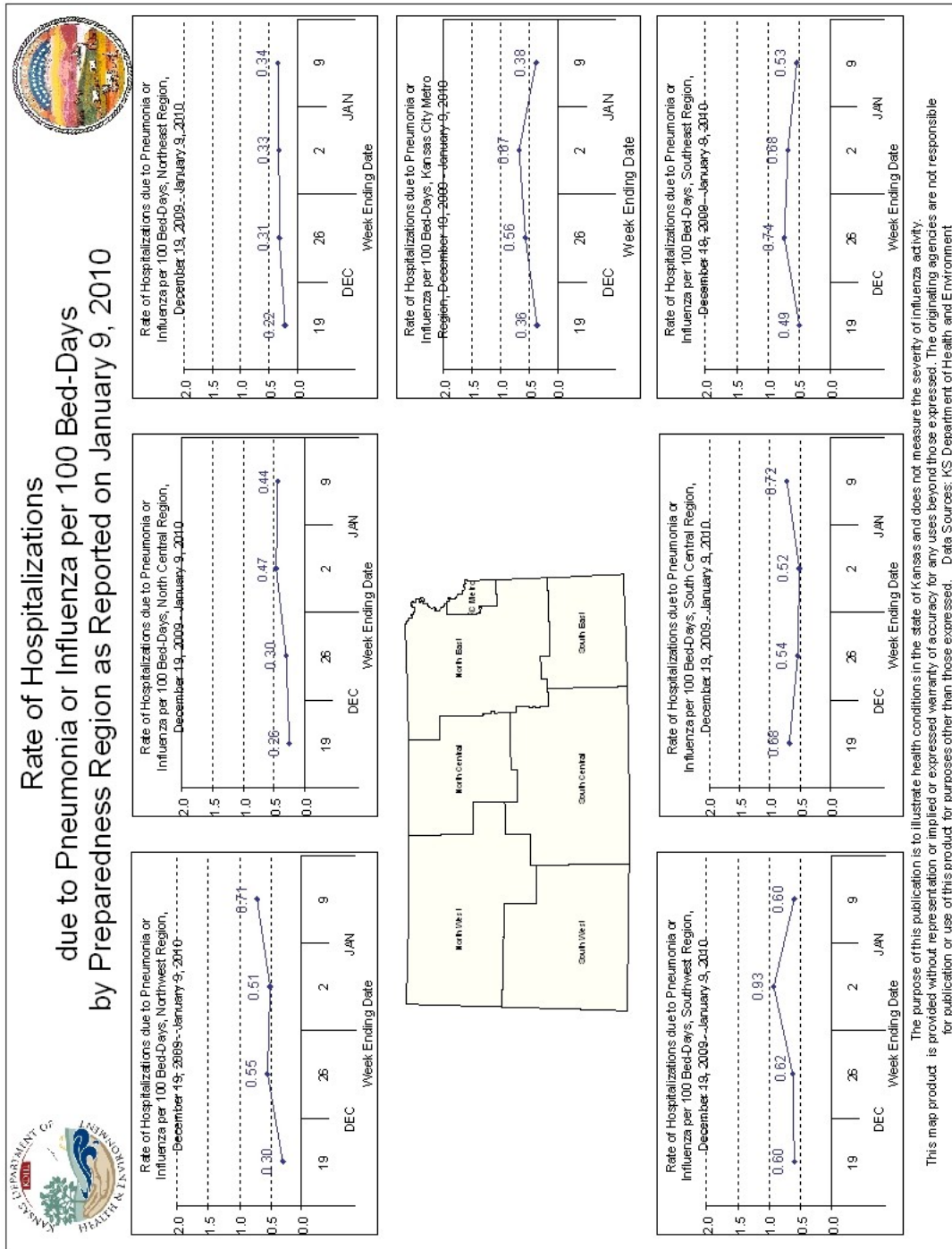
Number of Admissions for Pneumonia or Influenza by Age Group, December 2009 - January 2010



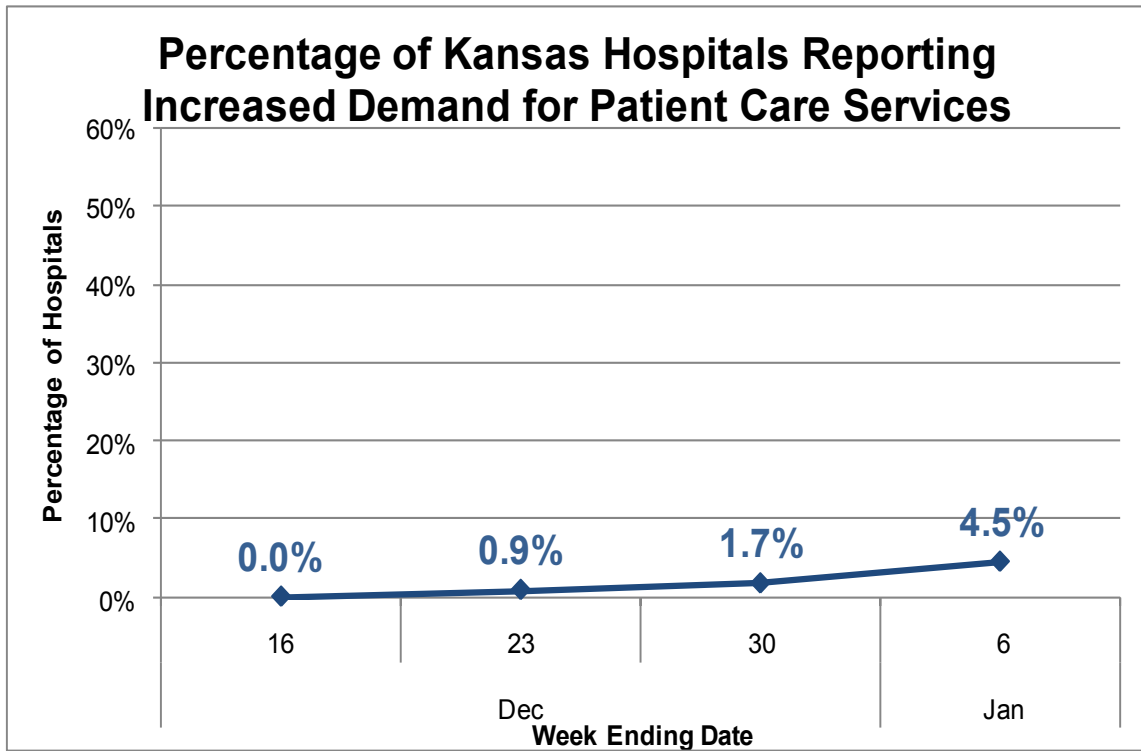
Rate of Hospitalizations due to Pneumonia or Influenza per 100 Bed-Days, Kansas, December 19, 2009 - January 9, 2010



Hospital Admissions (Surveillance Conducted via EMSystems) Week ending January 9, 2010



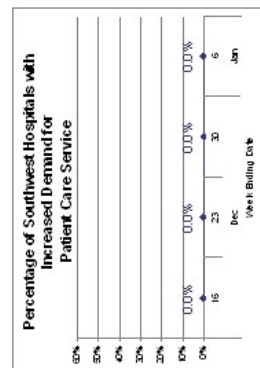
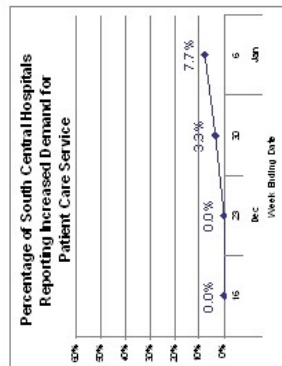
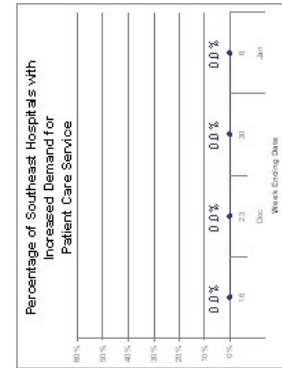
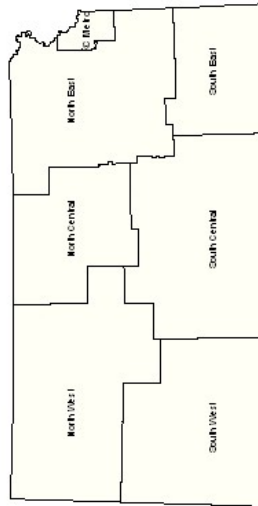
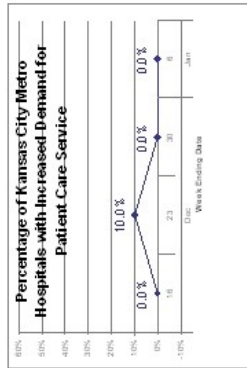
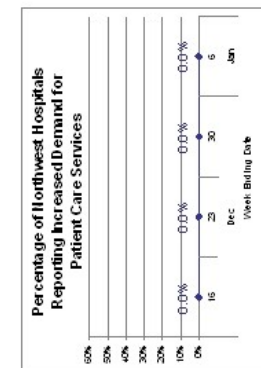
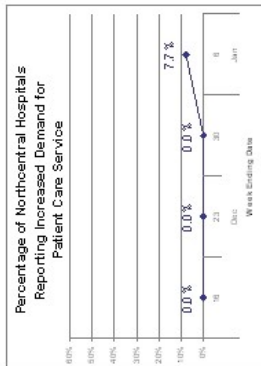
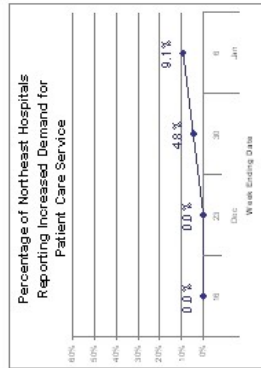
Hospital Situational Awareness (Surveillance Conducted via EMSystems)



Hospital Situational Awareness (Surveillance Conducted via EMSystems)

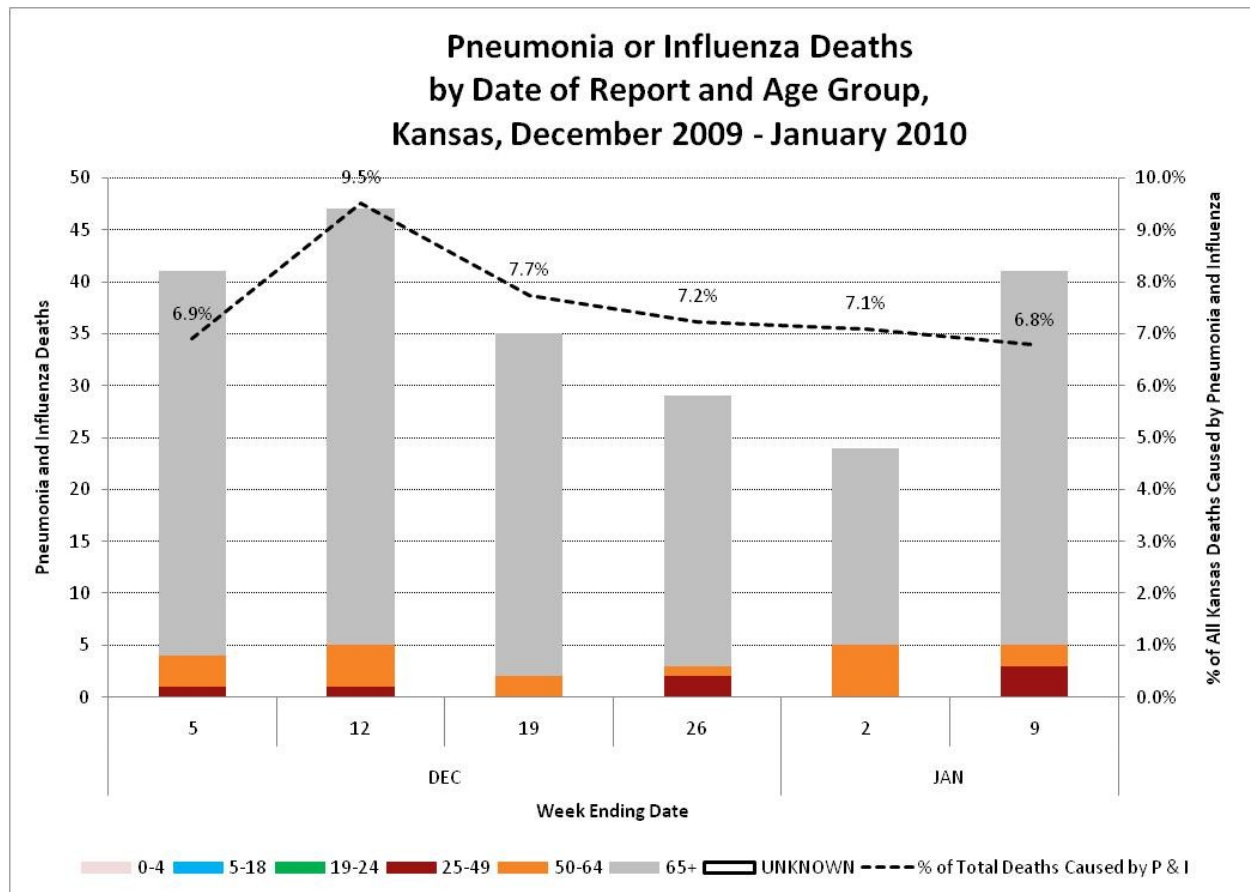


Percentage of Hospitals with Increased Demand for Patient Care Services by Preparedness Region as Reported on January 6, 2010



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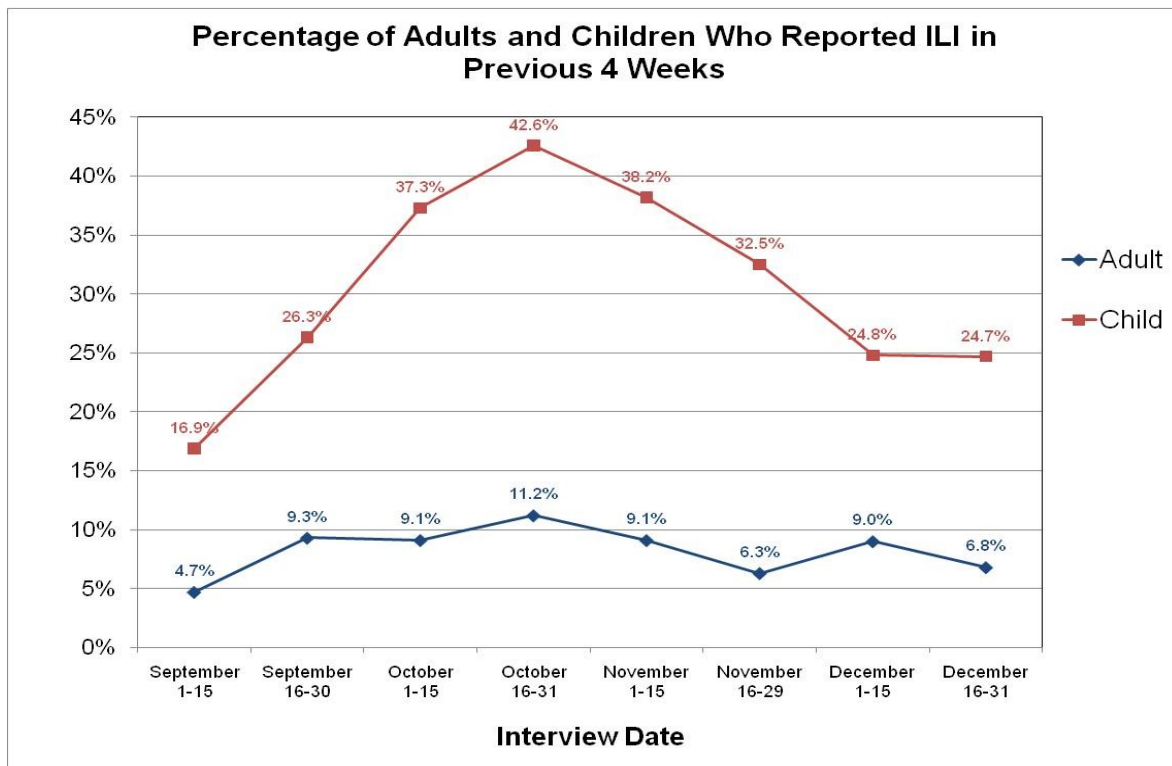
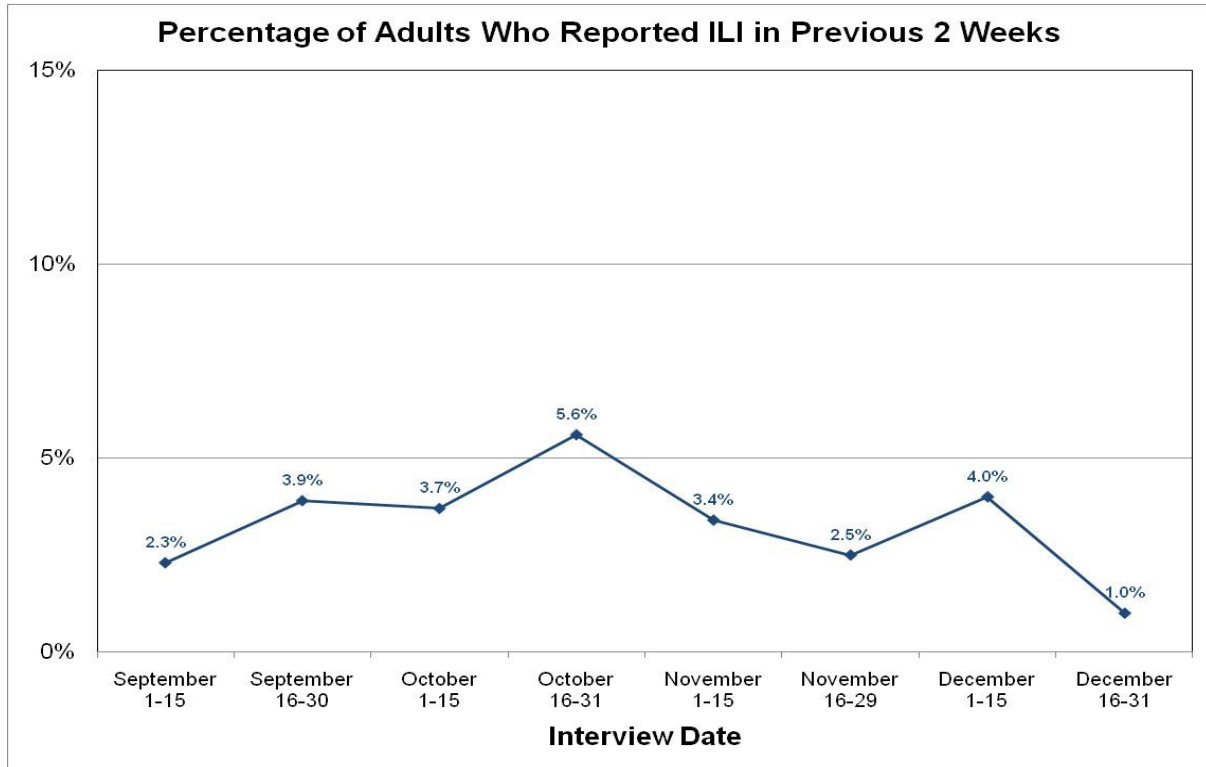
Mortality Due to Pneumonia or Influenza (Surveillance Conducted via KDHE Vital Statistics)



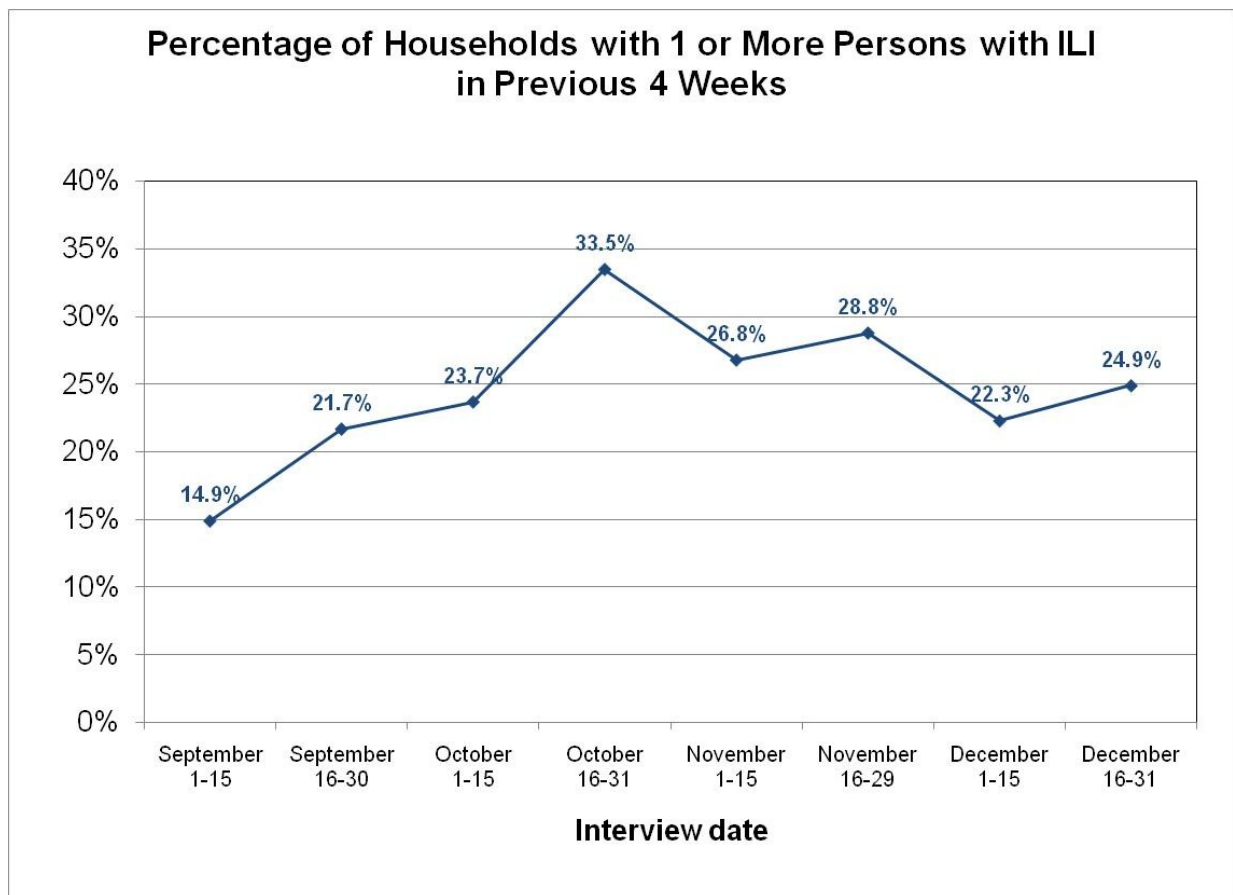
Cumulative Number of Pneumonia or Influenza Deaths Reported by Age Group, September 26, 2009—January 9, 2010

0-4	5-18	19-24	25-49	50-64	65+	Unknown	Total
0	0	0	23	51	453	1	528

Self-Reported Influenza-like Illness (Surveillance Conducted via KDHE BRFSS)



Self-Reported Influenza-like Illness (Surveillance Conducted via BRFSS)





Map of Kansas showing the percentage of the population aged 18-24 in each region. The regions and their percentages are:

- NORTH WEST: 11%
- NORTH CENTRAL: 13%
- NORTH EAST: 1%
- KC REGION: 10%
- SOUTH WEST: 7%
- SOUTH CENTRAL: 9%
- SOUTH EAST: 8%

Legend:

- < 20%
- 20% - 29%
- >= 30%

Legend:

- No Report (Diagonal lines)
- No Data (White)
- < 10% (Light pink)
- 10% - 49% (Medium pink)
- >= 50% (Dark red)

21

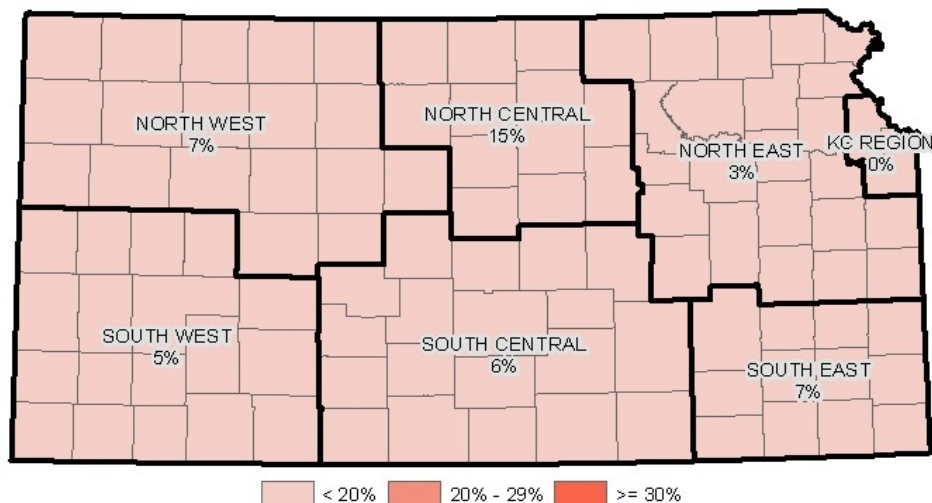
School Absenteeism (Surveillance Conducted via Health Departments) Week ending January 8, 2010



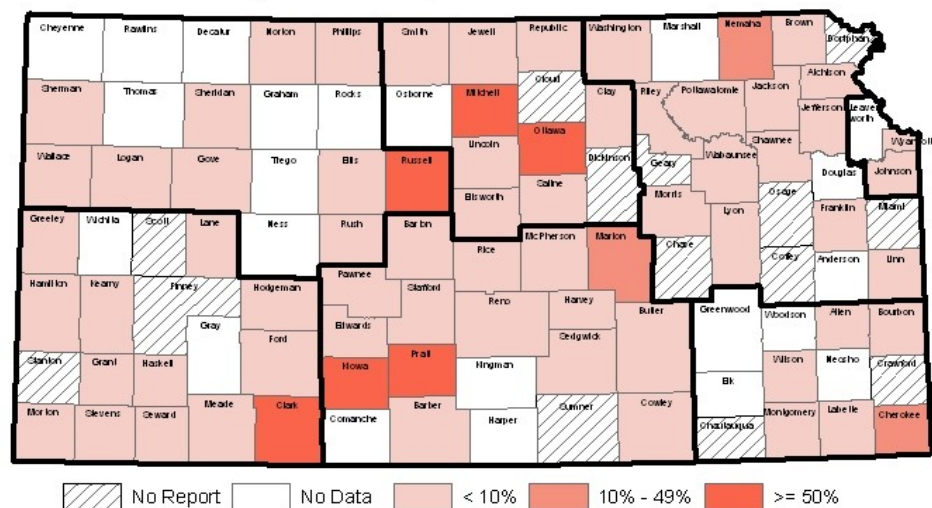
Percentage of Schools Reporting
10% or Greater Absenteeism
January 4 - January 8, 2010



Preparedness Region Summary for Middle Schools



County Summary for Middle Schools



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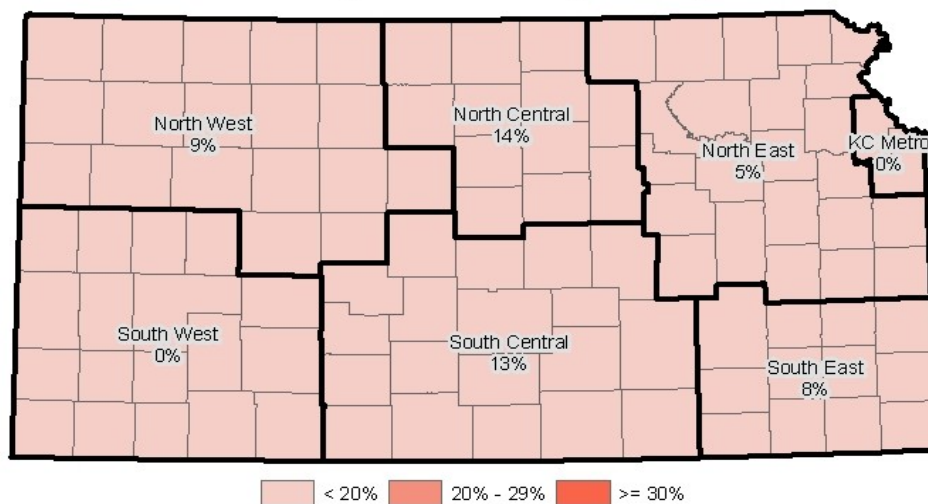
School Absenteeism (Surveillance Conducted via Health Departments) Week ending January 8, 2010



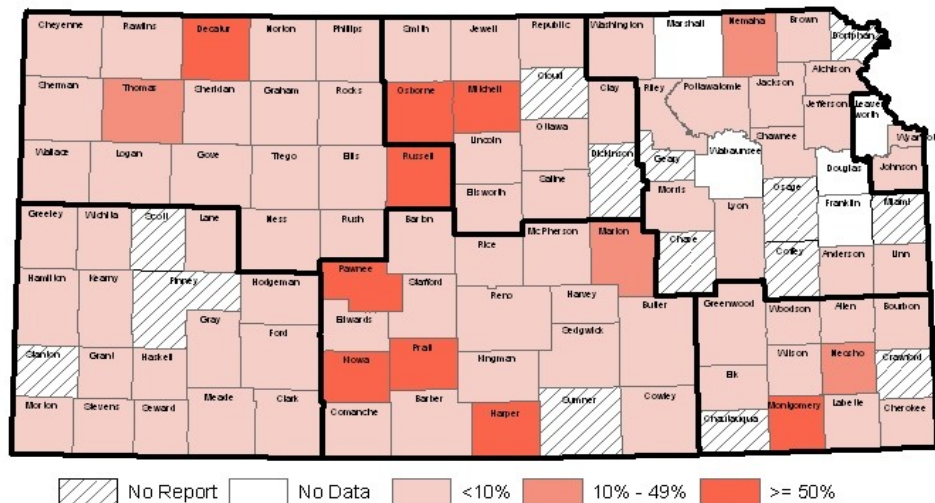
Percentage of Schools Reporting
10% or Greater Absenteeism
January 4 - January 8, 2010



Preparedness Region Summary for High Schools

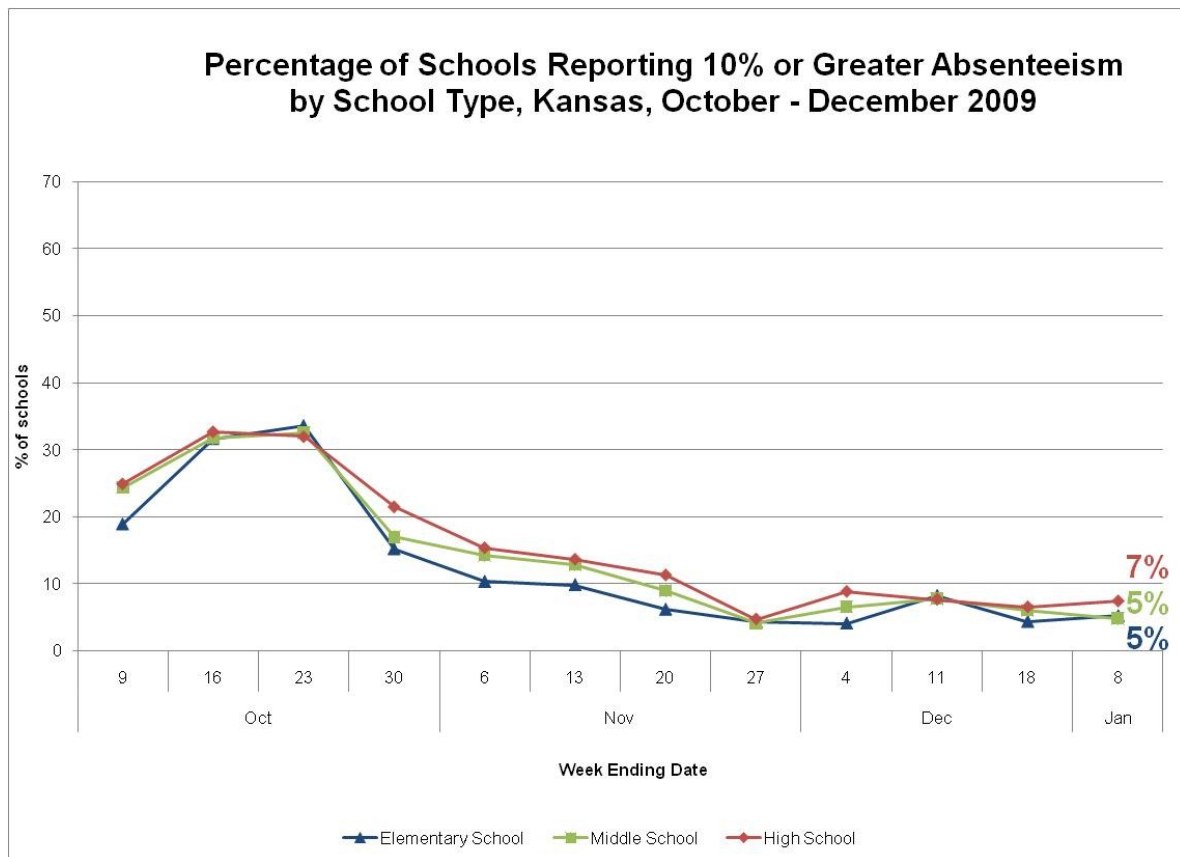


County Summary for High Schools



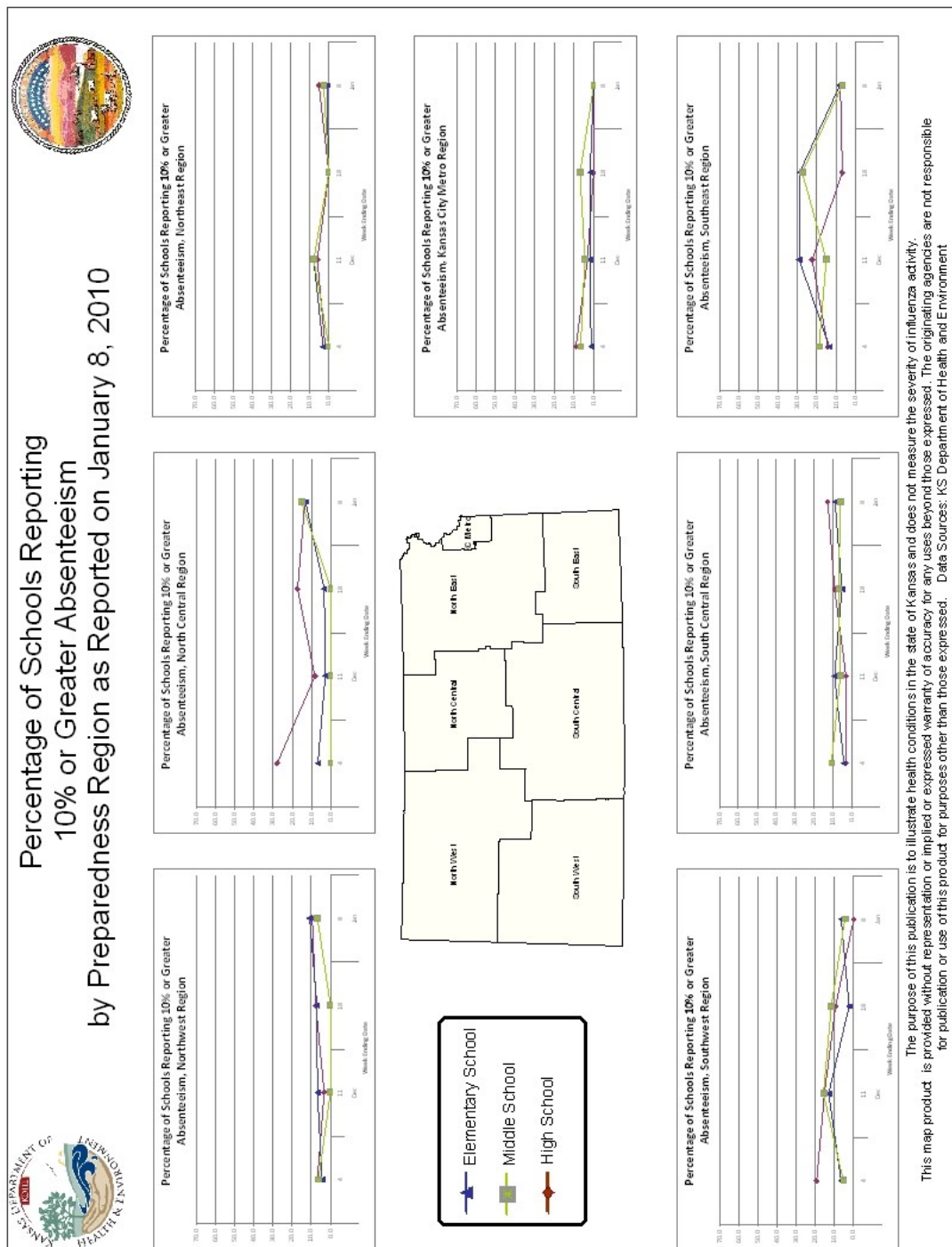
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School Absenteeism (Surveillance Conducted via Health Departments) Week ending January 8, 2010*



*No data reported for the week ending December 25, 2009 and January 1, 2010 due to Winter Break.

School Absenteeism (Surveillance Conducted via Health Departments) Week ending January 8, 2010*




*No data reported for the week ending December 25, 2009 and January 1, 2010 due to Winter Break.

Percentage of Schools Reporting 10% or Greater Absenteeism by Category and County, Week ending January 8, 2010


County	Elementary School	Middle School	High School
ALLEN	0%	0%	0%
ANDERSON	0%		0%
ATCHISON	20%	0%	0%
BARBER	50%	0%	0%
BARTON	0%	0%	0%
BOURBON	0%	0%	0%
BROWN	0%	0%	0%
BUTLER	5%	0%	0%
CHASE			
CHAUTAUQUA			
CHEROKEE	29%	33%	0%
CHEYENNE	0%		0%
CLARK	100%	50%	0%
CLAY	0%	0%	0%
CLOUD			
COFFEY			
COMANCHE	0%		0%
COWLEY	13%	0%	0%
CRAWFORD			
DECATUR	100%		100%
DICKINSON			
DONIPHAN			
DOUGLAS			
EDWARDS	0%	0%	0%
ELK	0%		0%
ELLIS	10%	0%	0%
ELLSWORTH	0%	0%	0%
FINNEY			
FORD	0%	0%	0%
FRANKLIN	0%	0%	
GEARY			
GOVE	0%	0%	0%
GRAHAM	0%		0%
GRANT	0%	0%	0%
GRAY	18%		0%

County	Elementary School	Middle School	High School
GREELEY	0%	0%	0%
GREENWOOD	0%		0%
HAMILTON	0%	0%	0%
HARPER	33%		50%
HARVEY	0%	0%	0%
HASKELL	0%	0%	0%
HODGEMAN	0%	0%	0%
JACKSON	0%	0%	0%
JEFFERSON	0%	0%	0%
JEWELL	100%	0%	0%
JOHNSON	0%	0%	0%
KEARNY	0%	0%	0%
KINGMAN	0%		0%
KIOWA	33%	100%	100%
LABETTE	0%	0%	0%
LANE	0%	0%	0%
LEAVENWORTH			
LINCOLN	0%	0%	0%
LINN	0%	0%	0%
LOGAN	0%	0%	0%
LYON	0%	0%	0%
MARION	50%	25%	33%
MARSHALL	0%		
MCPHERSON	0%	0%	0%
MEADE	0%	0%	0%
MIAMI			
MITCHELL	100%	100%	50%
MONTGOMERY	0%	0%	50%
MORRIS	0%	0%	0%
MORTON	0%	0%	0%
NEMAHA	0%	14%	33%
NEOSHO	33%		25%
NESS	0%		0%
NORTON	0%	0%	0%
OSAGE			

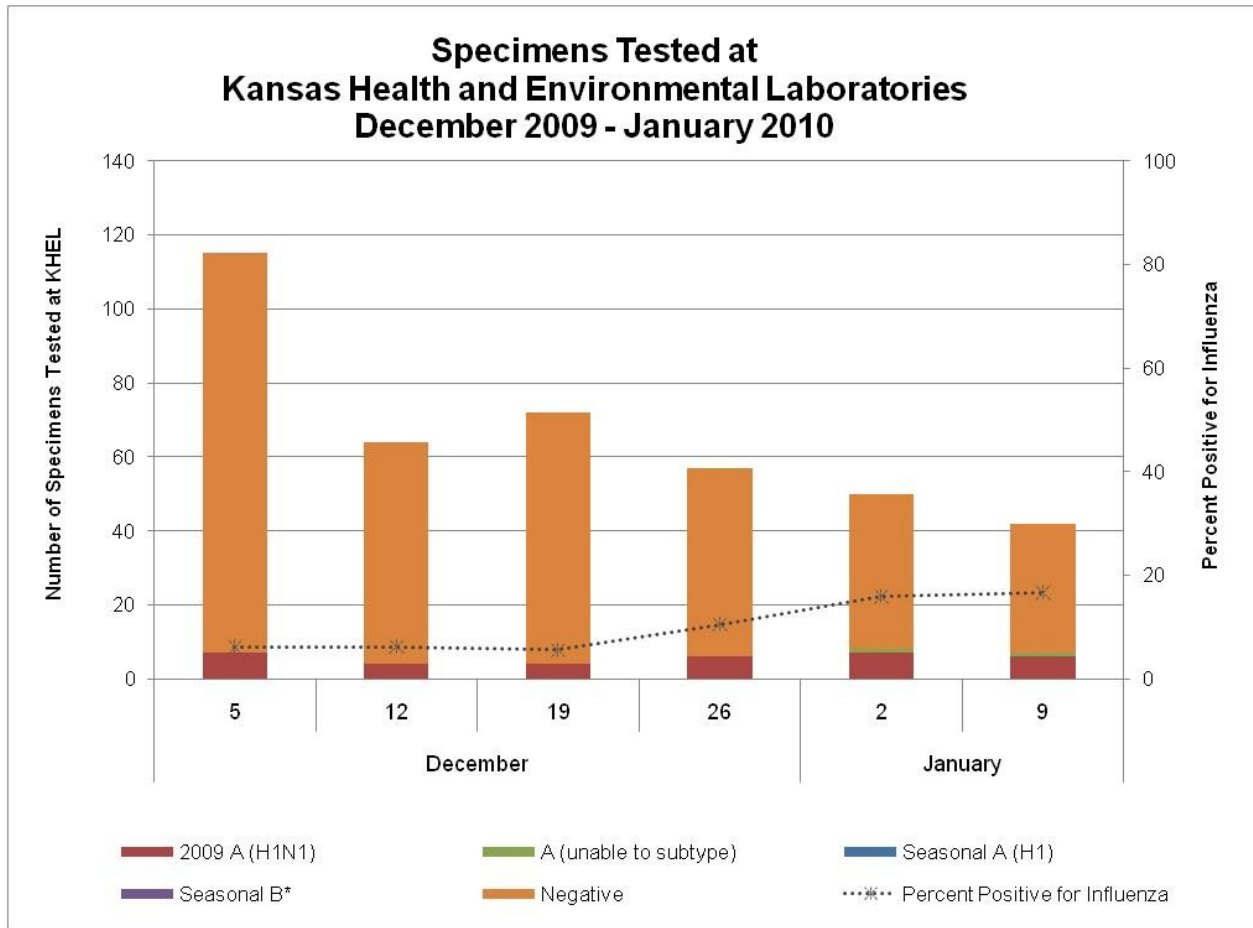
 No report or no data available

Percentage of Schools Reporting 10% or Greater Absenteeism by Category and County, Week ending January 8, 2010

County	Elementary School	Middle School	High School
OSBORNE	50%		67%
OTTAWA	0%	50%	0%
PAWNEE	75%	0%	100%
PHILLIPS	0%	0%	0%
POTTAWATOMIE	0%	0%	0%
PRATT	25%	50%	100%
RAWLINS	0%		0%
RENO	0%	0%	0%
REPUBLIC	0%	0%	0%
RICE	0%	0%	0%
RILEY	0%	0%	0%
ROOKS	0%		0%
RUSH	0%	0%	0%
RUSSELL	67%	100%	50%
SALINE	0%	0%	0%
SCOTT			
SEDGWICK	0%	0%	0%
SEWARD	0%	0%	0%
SHAWNEE	0%	0%	0%
SHERIDAN	0%	0%	0%
SHERMAN	0%	0%	0%
SMITH	0%	0%	0%
STAFFORD	0%	0%	0%
STANTON			
STEVENS	0%	0%	0%
SUMNER			
THOMAS	50%		33%
TREGO	0%		0%
WABAUNSEE	0%	0%	
WALLACE	0%	0%	0%
WASHINGTON	0%	0%	0%
WICHITA	0%		0%
WILSON	0%	0%	0%
WOODSON	0%		0%
WYANDOTTE	0%	0%	0%

 No report or no data available

Laboratory Testing (Surveillance Conducted via Kansas Health and Environmental Laboratories)



Kansas Department of Health and Environmental Laboratories October 4, 2009 — January 9, 2010

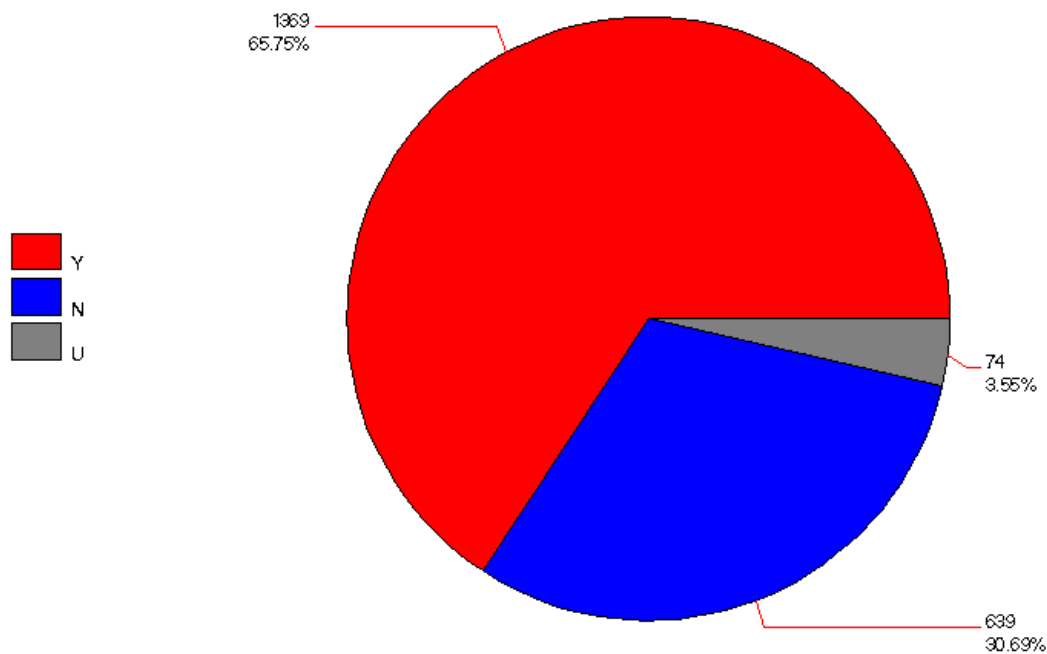
No. of specimens submitted for testing at KHEL	2126
No. of specimens testing positive for influenza A (2009 H1N1)	883 (42%)

Laboratory Testing (Surveillance Conducted via Kansas Health and Environmental Laboratories)

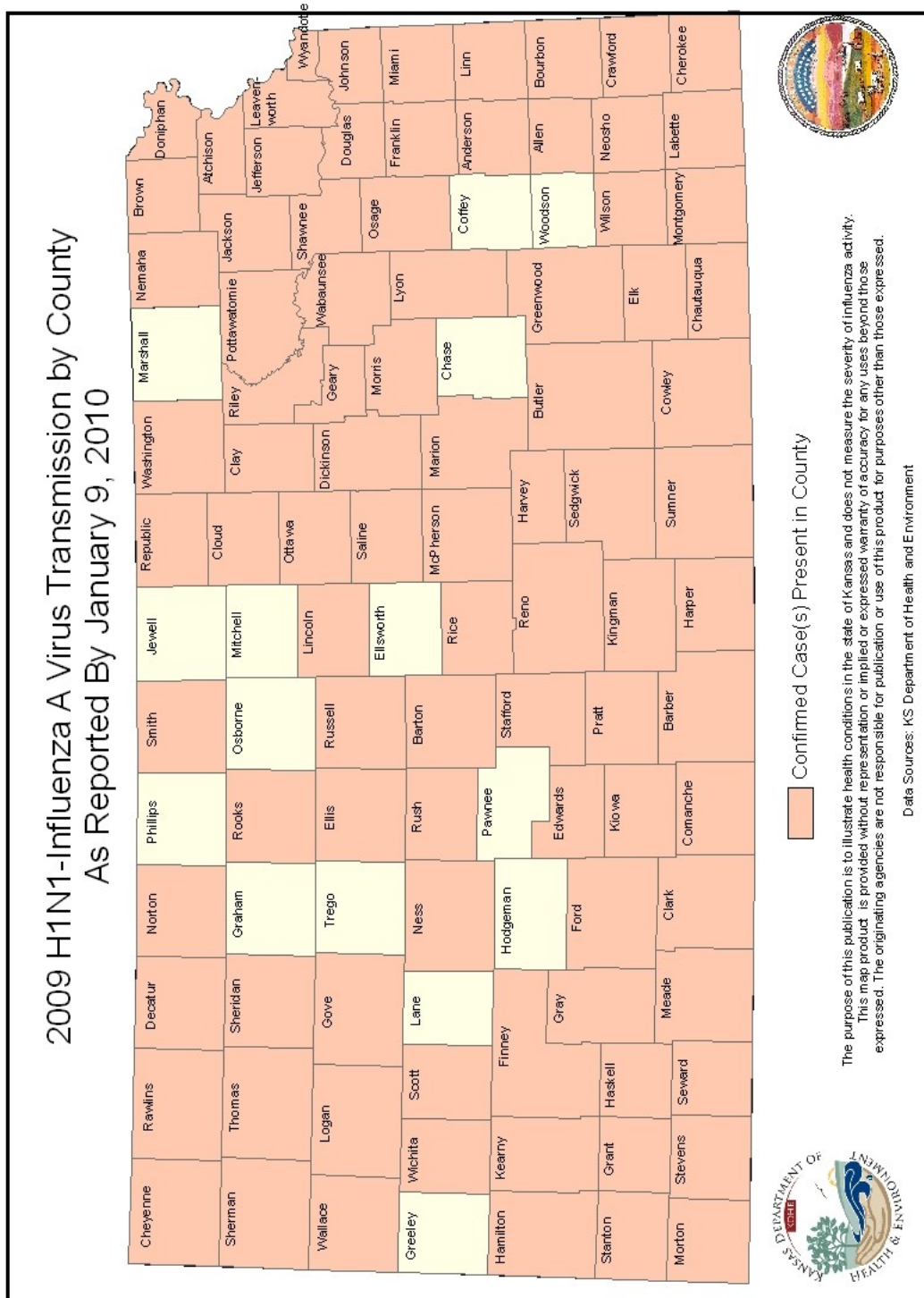
Influenza Specimens Tested at KHEL by Hospitalization Status

October 4, 2009 — January 9, 2010

FREQUENCY of Hospitalized



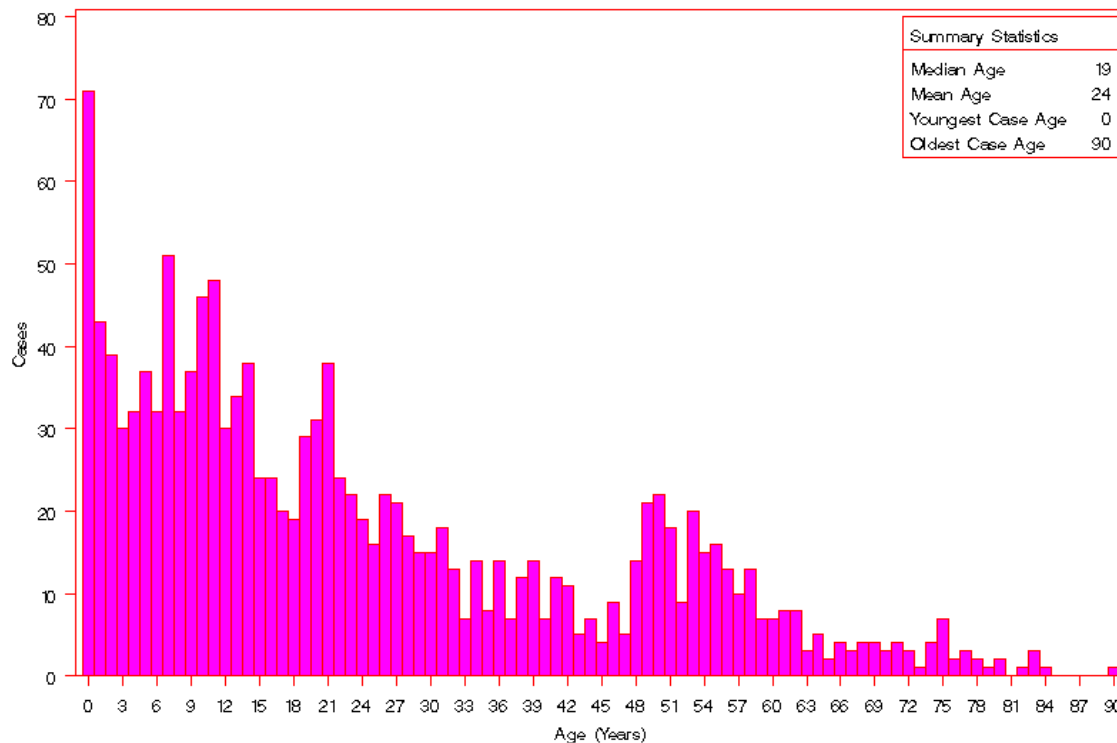
Descriptive Epidemiology of KHEL-Confirmed H1N1 Cases



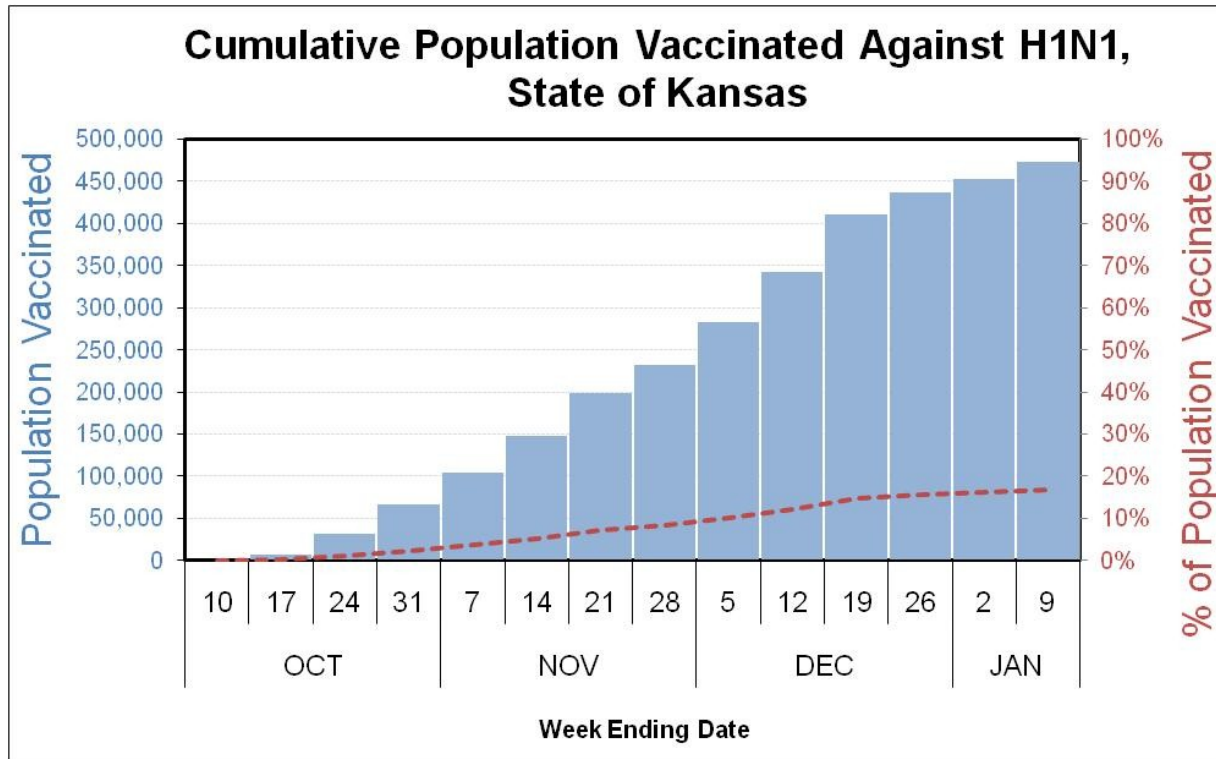
Descriptive Epidemiology of KHEL-Confirmed H1N1 Cases

Characteristics of Laboratory Confirmed Cases	
Median Age (Years)	19.0
Age Range (Years)	<1 to 90
Percent (%) by Age Group:	
<5 Years	(16)
5 to 24 Years	(46)
25 to 49 Years	(22)
50 to 64 Years	(13)
65+ Years	(4)
Percent (%) Male	(46)
Percent (%) Hispanic or Latino	(18)
Percent (%) by Race	
White	(73)
Black	(8)
Asian/Pacific Islander	(3)
American Indian/Alaska Native	(<1)
Mixed Race	(2)
Unknown	(14)
Percent (%) Died	(2)

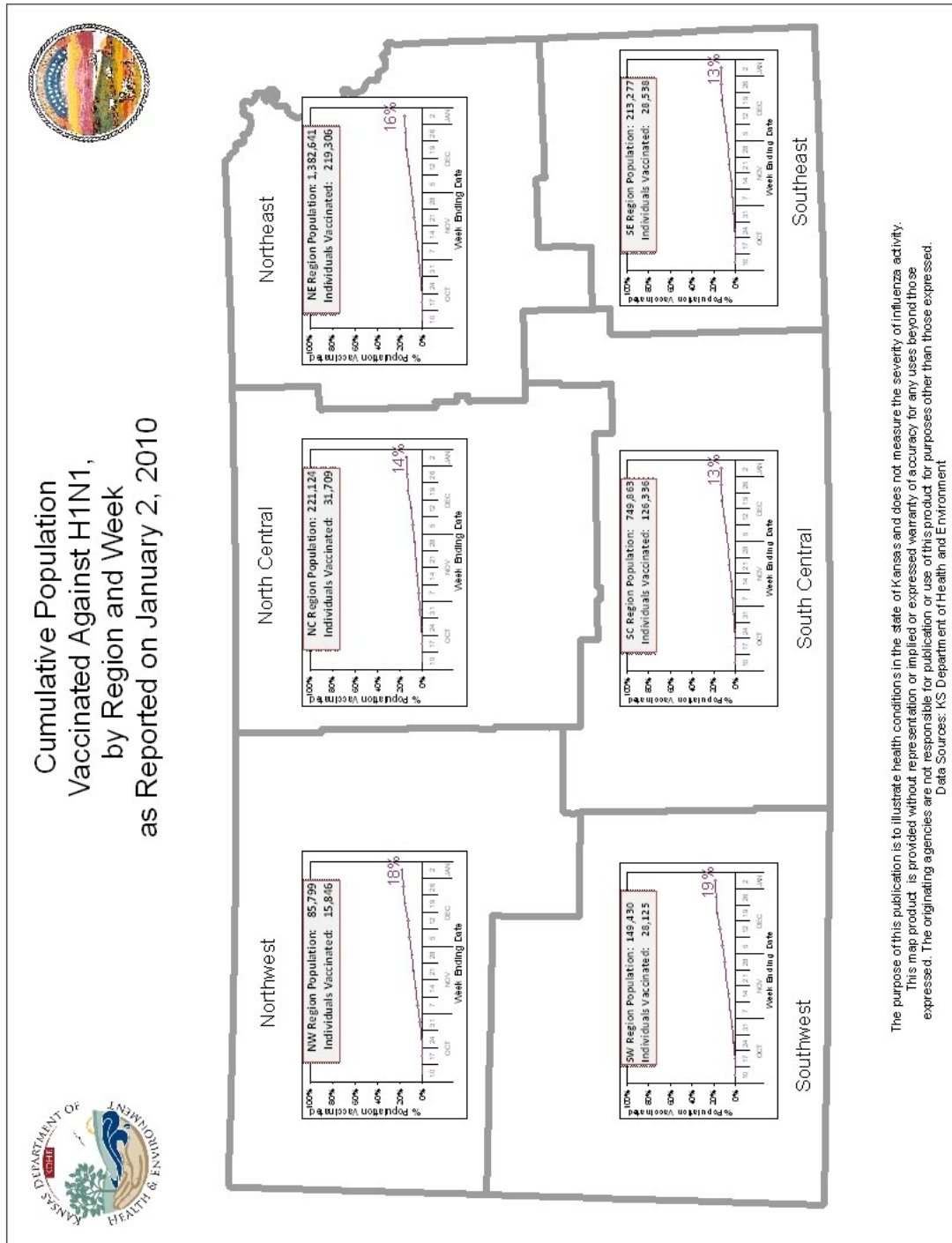
Age Distribution of Laboratory Confirmed Cases as of January 9, 2010



Population Vaccinated Against 2009 H1N1 Influenza A Virus



Population Vaccinated Against 2009 H1N1 Influenza A Virus



Technical Notes

Outpatient Influenza-like Illness Surveillance (ILINet)

Information on patient visits to health care providers for influenza-like illness is collected through the US Outpatient Influenza-like Illness Surveillance Network (ILINet). For this system, ILI is defined as fever (temperature of 100°F [37.8°C] or greater) and a cough and/or a sore throat in the absence of a KNOWN cause other than influenza.

ILINet clinics in Kansas report the number of patients seen with influenza-like illness each week. The information reflects data collected for the week ending the previous Saturday. As of January 2, 2010, seventy sites are enrolled in ILINet in Kansas. The maps and charts on pages 6-9 show the percentage of ILI visits reported by region and by site by week ending date. Each percentage was calculated by dividing the number of patients seen with ILI at the clinic by the total number of patients seen and multiplying by 100.

Influenza-like illness data are collected from Sunday through Saturday of each week. Each participating clinic is requested to summarize the data weekly and submit the data by noon on Tuesday of the following week. The information on these charts may change each week because of data that may have been submitted after the reporting deadline.

Hospital Admissions for Pneumonia or Influenza Surveillance (EMSystems)

Hospitals throughout Kansas submit information to the Kansas Hospital Association (KHA) through EMSystems, a secure, online reporting system. One hundred and thirty-one (131) hospitals that have access to EMSystems are included in this surveillance program. KDHE has partnered with KHA to collect aggregate information on patients hospitalized for pneumonia or influenza.

The maps and graphs on pages 10-13 show the rate of hospital admissions for pneumonia or influenza reported by region and by hospital by week ending date. Each rate was calculated by dividing the number of patients admitted to the hospital with pneumonia or influenza by bed days. The denominator bed days was calculated by multiplying the number of staffed beds by seven.

Hospital Situational Awareness (EMSystems)

As part of a U.S. Department of Health and Human Services assessment project, hospitals throughout Kansas submit information to the Kansas Hospital Association (KHA) through EMSystems, a secure, online reporting system. Every Wednesday, 134 hospitals in Kansas provide information that describe the current situation of the hospital at the time of the report. The data represent a “snapshot” in time and do not take into account changes observed over a span of time.

The maps presented in this report on pages 14-16 are the responses to the following question: “Is the facility seeing an increasing demand for patient care services, such as scheduling, triage, assessment, treatment, admissions, transfer, and discharge?”. Percentages were calculated by dividing the number of hospitals that responded “Yes” by the total number of hospitals that reported information and multiplying by 100.

Mortality Due to Pneumonia or Influenza

The Office of Vital Statistics within the Bureau of Public Health Informatics at KDHE receives and preserves vital records for events (births, deaths, marriages, and divorces) which occur in Kansas. The mortality data on page 17 reflects the number and percentage of persons whose primary or underlying cause of death was attributed to pneumonia and / or influenza.

Self-Reported Influenza-like Illness

The Behavioral Risk Factor Surveillance System (BRFSS), which is coordinated and partially funded by the Centers for Disease Control and Prevention, is the largest continuously conducted telephone survey

Technical Notes (continued)

Self-Reported Influenza-like Illness (continued)

in the world. It is conducted in every state, the District of Columbia, and several United States territories. The first BRFSS survey in Kansas was conducted as a point-in-time survey in 1990, and Kansas has conducted the BRFSS survey annually since 1992.

Beginning in September 2009, the BRFSS questionnaire was revised to include questions to assess influenza-like illness among adult respondents and other members of the household. The graphs on pages 18 and 19 provide the percent of adults, children, and households reporting ILI.

School Absenteeism Surveillance

Data are collected by local health departments (LHDs) during each school week. LHDs report the number of schools with 10% or greater absenteeism and the total number of schools that submit data each week. LHDs submit data to KDHE by noon on Tuesday of the following week.

LHDs report county data in three categories: elementary school (i.e. K-5), middle school (i.e., 6-8), and high school (i.e., 9-12). The designated school category is based upon the majority of grades within the school; for instance, a school consisting of grade levels K-6 would be classified as an elementary school.

Percentages of school absenteeism by county shown on pages 20-26 may be unstable and changes over time should be interpreted with caution. "No report" classification indicates the LHD failed to report any data to KDHE. "No data" classification indicates that either the school(s) did not report any data to the LHD or there are no schools in the county for the specific school category.

Laboratory Testing at Kansas Department of Health and Environmental Laboratories (KHEL)

The information on pages 27 and 28 represents data reported to KDHE for the week ending the previous Saturday. Prior to September 1, 2009 persons with symptoms consistent with ILI were tested at KHEL. Beginning September 1, specimens were only tested if the person was hospitalized, had died and the cause of death was suspected to be influenza, or if the person was seen at an ILINet Clinic Site.

Descriptive Epidemiology for Laboratory-Confirmed H1N1 Cases at KHEL

The information on pages 29 and 30 represents data reported to KDHE for the week ending the previous Saturday. Only cases that were laboratory confirmed at KHEL are included.

Population Vaccinated Against H1N1 Influenza A Virus

Vaccination sites throughout Kansas submit information on the number of H1N1 vaccine doses administered each week. The charts show the cumulative number of individuals vaccinated at the end of each week in each region of the state, and the cumulative percentage of each region's population that has been immunized. The cumulative numbers and rates may be skewed slightly, as individuals are divided into regions based on the site of vaccination; these charts do not account for individuals who were vaccinated in a region other than the region in which they reside. Vaccine administration data may change each week because of data submitted after the reporting deadline or because of corrections made to previously submitted data.

Data Quality Indicators

Percentage of Sites Represented in the Current Week's Data for the Following Sections:

Outpatient Influenza-like Illness Surveillance — 69% (48 of 70 ILINet sites)

Hospital Admissions for Pneumonia or Influenza Surveillance (EMSystems) - 63% (83 of 132 hospitals)

Hospital Situational Awareness (EMSystems) - 84% (112 of 134 hospitals)

School Absenteeism Surveillance— 87% (91 of 105 counties)

Appendix - Number and County Location of ILINet Clinic Sites

Allen	1
Barton	2
Brown	1
Butler	1
Cherokee	1
Cheyenne	1
Clark	1
Cloud	1
Cowley	1
Crawford	1
Dickinson	3
Douglas	2
Ellis	2
Finney	1
Ford	1
Franklin	1
Geary	2
Grant	2
Greenwood	1
Harvey	1
Jefferson	1
Johnson	5
Kiowa	1
Labette	1
Leavenworth	1
Linn	1
Lyon	2
McPherson	1
Meade	1
Montgomery	2
Neosho	1
Pottawatomie	1
Pratt	1
Reno	2
Riley	3
Saline	2
Sedgwick	6
Seward	2
Shawnee	3
Sherman	1
Wichita	1
Wyandotte	6

Appendix - List of Hospitals Included in Hospital Surveillance Section for Current Report

ANDERSON COUNTY HOSPITAL GARNETT
 ATCHISON HOSPITAL
 CENTRAL KANSAS MEDICAL CTR GREAT BEND
 CHEYENNE COUNTY HOSPITAL SAINT FRANCIS
 CITIZENS MEDICAL CENTER COLBY
 CLAY COUNTY MEDICAL CENTER
 CLOUD COUNTY HEALTH CENTER CONCORDIA
 COFFEY COUNTY HOSPITAL BURLINGTON
 COFFEYVILLE REGIONAL MEDICAL CENTER
 COMANCHE COUNTY HOSPITAL COLDWATER
 COMMUNITY MEMORIAL HC MARYSVILLE
 EDWARDS CO. HOSP. AND HC CTR. KINSLEY
 ELLINWOOD DISTRICT HOSPITAL
 ELLSWORTH COUNTY MEDICAL CENTER
 FREDONIA REGIONAL HOSPITAL
 GALICIA HEART HOSPITAL
 GEARY COMMUNITY HOSPITAL JUNCTION CITY
 GIRARD MEDICAL CENTER
 GOODLAND REGIONAL MEDICAL CENTER
 GRAHAM COUNTY HOSPITAL HILL CITY
 GREAT BEND REGIONAL HOSPITAL
 GREELEY COUNTY HEALTH SERVICES TRIBUNE
 GREENWOOD COUNTY HOSPITAL EUREKA
 GRISELL MEM. HOSP. DIST. NO. 1 RANSOM
 HARPER COUNTY HOSP DIST NO 6 ANTHONY
 HAYS MEDICAL CENTER
 HERINGTON MUNICIPAL HOSPITAL
 HIAWATHA COMMUNITY HOSPITAL
 HILLSBORO COMMUNITY HOSPITAL
 HODGEMAN CO HEALTH CENTER JETMORE
 JEFFERSON CO. MEM. HOSPITAL WINCHESTER
 JEWELL COUNTY HOSPITAL MANKATO
 KEARNY COUNTY HOSPITAL LAKIN
 KIOWA COUNTY MEM. HOSPITAL GREENSBURG
 LANE COUNTY HOSPITAL DIGHTON
 LINCOLN COUNTY HOSPITAL
 LOGAN COUNTY HOSPITAL OAKLEY
 MEDICINE LODGE MEMORIAL HOSPITAL
 MEMORIAL HOSPITAL ABILENE
 MEMORIAL HOSPITAL MCPHERSON
 MERCY HOSPITAL MOUNDRIDGE
 MERCY REGIONAL HEALTH CENTER MANHATTAN
 MIAMI COUNTY MEDICAL CENTER PAOLA

MINNEOLA DISTRICT HOSPITAL
 MORTON COUNTY HEALTH SYSTEM ELKART
 MT. CARMEL REG MEDICAL CTR PITTSBURG
 NEOSHO MEMORIAL RMC CHANUTE
 NEWMAN REGIONAL HEALTH EMPORIA
 NINNESCAH VALLEY HEALTH SYS. KINGMAN
 OSBORNE COUNTY MEMORIAL HOSPITAL
 OSWEGO COMMUNITY HOSPITAL
 OTTAWA COUNTY HEALTH CENTER MINNEAPOLIS
 PHILLIPS COUNTY HOSPITAL PHILLIPSBURG
 PROMISE REGIONAL MEDICAL CENTER HUTCHINS
 RANSOM MEMORIAL HOSPITAL OTTAWA
 RAWLINS COUNTY HEALTH CENTER ATWOOD
 REPUBLIC COUNTY HOSPITAL BELLEVILLE
 ROOKS COUNTY HEALTH CENTER PLAINVILLE
 RUSH COUNTY MEMORIAL HOSPITAL LACROSSE
 SABETHA COMMUNITY HOSPITAL
 SALINA REGIONAL HEALTH CENTER
 SCOTT COUNTY HOSPITAL
 SEDAN CITY HOSPITAL
 SHERIDAN COUNTY HEALTH COMPLEX HOXIE
 SMITH COUNTY MEMORIAL HOSPITAL
 SOUTHWEST MEDICAL CENTER LIBERAL
 ST JOHNS MAUDE NORTON MEM HOSP-COLUMBUS
 ST. CATHERINE HOSPITAL GARDEN CITY
 ST. FRANCIS HEALTH CENTER TOPEKA
 ST. JOSEPH MEMORIAL HOSPITAL LARNED
 ST. LUKE HOSPITAL AND LIVING CTR MARION
 ST. MARYS HEALTH CENTER ST. MARYS
 STAFFORD DISTRICT HOSPITAL
 STEVENS COUNTY HOSPITAL HUGOTON
 STORMONT VAIL HEALTHCARE TOPEKA
 SUMNER COUNTY DIST. NO. 1 CALDWELL
 SUSAN B. ALLEN MEM. HOSPITAL EL DORADO
 VIA CHRISTI REGIONAL MED CTR WICHITA
 WAMEGO CITY HOSPITAL
 WASHINGTON COUNTY HOSPITAL
 WESLEY MEDICAL CENTER WICHITA
 WESTERN PLAINS MED. COMPLEX DODGE CITY
 WICHITA COUNTY HEALTH CENTER LEOTI
 WILLIAM NEWTON HOSPITAL WINFIELD